

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: n4so@juno.com (charles k brown)
Subject: [19660] 17 meters 4 el beam
Message-ID: <19970514.192233.4431.7.n4so@juno.com>

Hy-gain 204BA 4 element beam for 14 Mhz comes with instructions for assembly on 18 Mhz. The dimensions for each element shortens the antenna 3 feet or so... --makes an excellent 4 element beam for QRP.

Ken Brown, N4SO
QTH nr Mobile, AL
qrp-1 #622
n4so@juno.com

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: kc4mhm@juno.com (ed miller)
Subject: [19704] 300 Ohm Camp Ant
Message-ID: <19970504.104615.4959.0.KC4MHM@juno.com>

Jay:

I was so busy deleting the CB Website postings that I inadvertently deleted your second posting. Would it be possible for you to send it again? You were an innocent victim, and I apologize.

Tks Ed KC4MHM@juno.com

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: "Randy Moore" <wr.moore@worldnet.att.net>
Subject: [19655] 50/40/30 Results from Tuesday
Message-ID: <19970515011728.AAA308@THEMOORE.pcmail.ingr.com>

Tuesday night's 50/40/30 activity was almost as active as my Fox hunt experiences, and was a lot of fun. On 30, I started off dodging European DX, and worked my first 38S contact (him not me). Signals were pretty stable and strong, with very little QRN. 40 was noisy, as usual, with even stronger signals - some amazingly strong! On both bands there were at least a couple of signals that I could never pull out of the mud. On the other hand, worked several stations on both bands.

I had several QRO guys answer my CQ, and I've included them in the log. They were very obliging and seemed interested in working a QRP station.

Thanks for a fun evening of ham radio! Here's the log...

30m 16 Qs, 11 2XQRP Qs, 13 States, 1 Province

40m 15 Qs, 12 2XQRP Qs, 13 States

TIME	CALL	RST(S)	RST(R)	S/P/C	NAME	PWR
-30M-						
0006	WA1QVM	449	559	MA	JOEL	4W
0024	WA30FD	589	459	PA	DICK	50W
0036	WA4CHQ	569	579	VA	NEIL	1W
0046	KB8UMD	569	539	MI	JOHN	5W
0051	W5BLR	559	559	TX	RICH	5W
0102	KA2QIK	569	539	NY	PHIL	100W
0108	WA9PWP	569	569	WI	PAUL	5W
0112	KR0I 579	569	MO	MAC	5W	
0115	WQ8RP	579	579	MI	HANK	5W
0118	KH6DX/M	589	559	CA	DON	80W
0125	WD3P 449	449	MD	LARRY	5W	
0128	WD4MSM	INCOMPLETE EXCHANGE				
0131	WA0UIG	449	539	IA	RUSS	5W
0134	K0DN 339	559	MN	DICK	2W	
0136	KI7MN	339	339	AZ	BOB	5W
0142	VE3EIM	579	569	ONT	BOB	150W
0145	KI0F 589	569	MN	ROGER	75W	
-40M-						
0203	K4GT 339	579	GA	JIM	3W	
0207	KT3A 449	559	PA	CAM	5W	
0210	K4WZ 599+	599	GA	RON	5W (amazing!)	
0214	WD3P 589	579	MD	LARRY	5W	
0219	KS4HQ	589	589	NC	BOB	INCOMPLETE EXCHANGE (QRM)
0227	KI0II	339	339	CO	RON	5W
0231	WD4MSM	459	339	IN	BARRY	5W (got him!)
0235	W9KI 599	559	AR	HOWARD	5W (also amazing!)	
0238	KR0I 589	579	MO	MAC	5W	
0243	KI7MN	339	339	AZ	BOB	5W
0251	NR80 599	599	OH	RON	600W (not amazing!)	
0259	KF7CTA?	INCOMPLETE EXCHANGE				
0322	W6MN 569	459	CA	FRANK	55W	
0330	WA8LCZ	569	549	MI	BYRON	5W
0338	WA4KAC	459	459	MD	WALT	1.5W
0343	K0EVZ	569	569	MN	DOC	5W
0350	N2DFT	589	449	NY	GEORGE	85W

72,
Randy, KS4L

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: Joel Malman <malman@BBN.COM>
Subject: [19654] band report
Message-ID: <199705150033.UAA216728@nss2.CC.Lehigh.EDU>

Folks,

Thought I would listen in on 17 meters tonight.

Time = 2310 z

1. Changed bands and right off I heard IK6BAK/beacon on 18,068.1 at about 559 and said yepppee ...
2. Tuned up the band. A few IK, I, etc all having stateside QSO's.
3. Time = 2319z. I decided to tail end IS00MH Sardinia. It worked. He was BOOMING in at 589. My 4 watts and a dipole got a 559. Nice QSO.
4. Listen around, signals are going down fast.
5. Time = 2350z IK6BAK/beacon fading.
6. Time = 0000z band opening is just a happy memory.

72

/joel wa1qvm (malman@bbn.com ... Concord, Ma.)
WIMPS: Qs=097 30m=088 17m=08 12m=01 States=18/03/00 DX=036/05/01

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: macdondd@cadvision.com (Duncan David Mac Donald)
Subject: [19663] BEST WAY
Message-ID: <199705150153.TAA87528@huey.cadvision.com>

Good Evening to All.

VE6KNB a new ham made contact with AD4PEE and wishes to send him a QSL card. This contact was made in the Novice portion of the 80 meter band. We have tried the University of ARK Little Rock ham station which has a Call Book but was not listed there. Can any one help with suggestions on how to find the address of AD4PEE
72 s Duncan

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997
From: Harry Bump <bump@redrose.net>
Subject: [19707] Cascade (troubles...)
Message-ID: <337BBB93.60E9@redrose.net>

Hi Guys,

My Cascade is coming together - slowly. I've run into a problem with the BFO. It does oscillate and mix, but I can't seem to get it on frequency. With both trim capacitors (C90 and C19) in the minimum position (plates away from the flat side of the cap) I can understand what I hear on 20m, but there is no way to adjust so that I get copyable signals when the 75m module is in. The circuit appears to need less than minimum capacitance. I did try removing L3/L33 and replacing them with a jumper.... That didn't make any difference at all in the BFO frequency.

Any ideas?

73,

Harry Bump, KM3D

Contest shareware author (DOS) PA1200m: PA QSO Party
CA1200m: Calif QSO Party
(available on ARRL MI1200m: Mich QSO Party
page and others or FD1200m: Fieldday
direct) CWI: PC CW keyboard

OUTLAW WIRELESS LEAGUE (1996 PA QSO Party Small Club Gavel award)
QRPARCI #3875 - - - - - NORCAL #1295 - - - - - QRP-L #637

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
Subject: [19690] Corsair II problem over
Message-ID: <11973.863708884@safety.ics.uci.edu>

Thanks for all the suggestions. I went all around tapping all connectors and filters. I ran all the switches up and down. I got it back, when I put the filter switch back into the stock filter position. Don't know whether it was a filter, connection, switch, or even if I

somehow left the filter switch in an open position (no accessory filters on board). I can test that theory by listening for a signal with the switch in a position with no filter and see if I hear anything and get no PBT action. Hey, but then I would feel stupid. Guess I'll leave it alone. Anyway, the Corsair II works now.

Next topic: I want CW filters for it! Anyone have the 282 or 285 (6.3 MHz IF Cw filters, 500 and 250 Hz) for sale? I would buy or have a 9 MHz IF filter to trade, the 218, 1.8 Khz ssb filter.

Anyone ever build on an added filter into the 9 MHz IF for the Corsairs? I was thinking of adding a 500 Hz filter in that IF automatically switched in by the CW mode switch or manually from a switch on the back of the rig. Would be nice to have a pair of 500 Hz filters for normal CW operation.

Thanks to everyone for the help. I got a lot of good solid advice.

Clark
WA3JPG

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: rerobins@unccvm.uncc.edu (Rick Robinson)
Subject: [19700] CQ Rich Arland
Message-ID: <v0213050e630d82d9775e@[152.15.144.13]>

Have you sold your Sierra? I accidently trashed your message.

Rick kf4ar

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: ALK0FRP@aol.com
Subject: [19708] Equipment Manuals
Message-ID: <970515184856_-365003259@emout10.mail.aol.com>

To All

There has been many requests for manuals and I hope most are getting them from others here on the list. But If all else fails go to Gary W7FG. He has about 3000 manuals (copies) for sale. He has this as a side line business. Has an excellant web site WWW.W7FG.com 1-800-807-6146 unique fone number

for us that remember all the old glow in the dark radios.

Gary is a friend from the Navy over 28 years ago. Mention my name and call and he still won't give you a discount. Manuals are from less than \$10 to over \$25 depending on size.

If all else fails give give him a try. Try here first because we will be much cheaper.

Al K0FRP

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: jsm@deepcove.com (Steve McDonald)
Subject: [19666] FERRITE SLUGS
Message-ID: <199705150241.TAA02083@freya.van.hookup.net>

Although not directly QRP related, I am hoping that some of you diehard homebrewers can help.
What effect would substituting a brass slug (ie. small brass screw) for a ferrite slug have on a vhf tuned circuit (approx 100 MHz). Would inserting the brass tend to raise the frequency as opposed to lowering it? Would the overall 'Q' be maintained or would it be degraded and if so to what extent??

Steve / VE7SL

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [19675] FS or FT Argo 556 with all band modules, etc.
Message-ID: <337a843e.14021476@smtp.usit.net>

=46or Sale or Trade:

Outbacker, Jr. 4 ft. HF Mobile antenna (80-10m) \$140 plus shipping.

MFJ 9040 40M CW Transceiver (QRP) for \$110 PLUS shipping. Covers the entire CW portion of 40m, including the novice subband.

Alinco DJ-160T 2m Handheld with carry case, two batteries, and wall charger, AEA collapsable antenna (10" closed, end-fed 5/8 when extended to 3 ft.), original rubber duck antenna. MARS/CAP modified, rx/tx 135-179 MHz. \$165 plus shipping

TenTec Argo 556 with NB and *COMPLETE SET* of *ALL 9* HF band modules (160-10m) -- will *not* separate band modules -- for \$650 plus shipping. Will only trade this item for Alinco DX-70, Kenwood TS-50, or similar compact HF radio.

Sanegean 803 (RS DX-440 label) general coverage receiver with FM broadcast, BFO, narrow/wide filter, Scan, 10 memories for \$120 plus shipping.

Will trade for:

Alinco DX-70, Kenwood TS-50, Icom IC-706, or similar compact HF rig.

Dual band VHF/UHF mobile rig (no HT's, please) with dual in-band receive (VHF/VHF, UHF/UHF, VHF/UHF). Yaesu FT-5100, Alinco DR-610, or similar.

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
~~~~~

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: AE0Q V31RY <v31ry@ix.netcom.com>  
Subject: [19684] FS: Cushcraft R7 vertical  
Message-ID: <2.2.16.19970515131643.1937f71c@popd.ix.netcom.com>

For Sale: Cushcraft R7 multi-band vertical, covers 40 thru 10 meters. Antenna has been used for a total of 5 weeks on 3 trips to Belize (over 6,000 QSO's have been made with 100 countries using this antenna on CW and RTTY). It is 22.5 ft high, and mounts nicely on a 10 ft Radio Shack mast section. Does not need to be guyed above the base of the antenna. Handy for a small yard or low profile installation. \$250

Glenn AE0Q 303-986-6379 (Denver, CO)

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"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK  
v31ry@ix.netcom.com --SOWP 5558-M, QCWA LM, ARRL LM, NCVA--

<http://www.qsl.net/ae0q>

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Brian K. Short" <ke7gh@primenet.com>  
Subject: [19653] FS: W9GR DSP \$50 obo (shipped)  
Message-ID: <3.0.1.32.19970514233919.0072a97c@mailhost.primenet.com>

>I have a W9GR DSP unit that was well built by an EE to meticulous  
>standards. It works very well. I have 2 and don't really need this one  
>anymore. These are great for QRP, you can really pull the weak ones out  
>of the mud. In addition, it has enough audio to drive a speaker well.  
>  
>Asking \$75 including shipping CONUS

I also have a W9GR DSP unit (built by me) and working well.  
>From the QST article/kit with the CPU/PROM upgrade for all  
modes and inside a nice metal cabinet. Low power consumption  
with the CPU/PROM upgrade.

Will accept \$50 (shipped) obo?

Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484  
k7on@qsl.net >or< ke7gh@primenet.com <http://www.qsl.net/k7on>

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: MSU1972@aol.com  
Subject: [19664] FSFT 10 Meter mobile  
Message-ID: <970514215542\_-598170183@emout02.mail.aol.com>

For sale 10 meter mobile, Radio Shack, HTX-100, \$125 or will trade for QRP  
equipment, David, KB8OCC

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Norm Melick <henmel@worldnet.att.net>  
Subject: [19670] IC's  
Message-ID: <337A8010.2A58@worldnet.att.net>

I have been playing with a tunable bandpass filter using 741's, 1458's  
and LM386's. A friend tells me that these are "old and power hungry",  
and I should look at TL062's, TL071's, TL081's, etc. He says that they



cost the same, use less power and perform way better than the 741's and LM386.

My questions are:

Does anyone out there have any experience with these IC's?  
Why don't I see these IC's used more in QRP?

Thanks to all in advance.

Norm

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Michael Connor" <mikec@primenet.com>  
Subject: [19698] J-38 Arrives  
Message-ID: <199705151719.KAA19040@usr10.primenet.com>

Gang,  
Dunno what happened, Murphy must have had his back turned this time;  
the J-38 arrived this morning.:-)  
Thanks to Stephen Lee!

Mike  
NQ7K

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Brian K. Short" <ke7gh@primenet.com>  
Subject: [19665] My DSP (W9GR) Sold!  
Message-ID: <3.0.1.32.19970515010219.0073b258@mailhost.primenet.com>

Thanks for all interest.

Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484  
k7on@qsl.net >or< ke7gh@primenet.com <http://www.qsl.net/k7on>

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Scott Thomas <n1st@ntplx.net>  
Subject: [19681] My RS HTX-100 Just Blinks at me  
Message-ID: <01BC60FE.FB545920@pc6651.hsd.utc.com>

The display on my RS HTX-100 (which I use at QRP levels of course) just =

Blinks at me me. I've tried grounding the little reset wire beneath the = tuning knob. Any ideas, anyone?

Scott.

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>  
Subject: [19657] 00ps, and ONLY ONE MORE DAY!  
Message-ID: <Pine.3.89.9705141911.L20588-0100000@w3eax.umd.edu>

To everyone going to FDIIM and reading their e-mail from their hotel rooms,  
  
HAVE A SUPER TIME!!!

Save me some pizza.

Sorry about the preceding post to the whole list.

\* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 \*  
\*\*\* 6m 75 grids worked on 8 watts \*\*\* HF 140 cfmd \* QRP-L #147 \*\*\*  
\*\* QRP ARCI #9054 \*\* DXCC/WAS/WAC \*\*\* 100% dipole powered HF/6m \*\*  
\* 301-549-1022 h / 301-982-1015 w \*\*\* DAYTON PHONE 937-434-8750 \*

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Jon Ayscue <ayscue@stsci.edu>  
Subject: [19686] Opinions of Foxgap Keyer?  
Message-ID: <v03007807afa0c2c70b7a@[130.167.14.150]>

Has anyone tried one of these keyers, and if so, what is your opinion of it?

Jon KC3OU

>           \*\* FoxGap CW Memory Keyer \*\*  
>  
>  
>           Great features-Great Value  
>  
>           FoxGap C.W.  
>           Memory Keyer Instructions:  
>  
>           Features:  
>           =85 5 to 40 words per minute rate.

> =85 One message memory, about 1 minute at 13 WPM.  
> =85 CMOS chip, for longer battery life.  
> =85 Side tone oscillator with tone control.  
> =85 Side tone amplifier with volume control.  
> =85 Internal speaker.  
> =85 Runs low EMI mode for quiet operation while receiving.  
> =85 Tune switch, allows easy transmitter tuning.  
> =85 Operates on 9 volt battery, not supplied.  
> =85 and/or Operates on optional AC adapter.  
> =85 and/or Operates on your 12 volt shack supply.  
>  
>

> The FoxGap CW Memory Keyer lists for \$79.95  
> For a limited time the intro offer is \$60.00  
> Shipping extra. We can ship UPS COD cash only,  
> MO, or certified check. For further information  
> contact Jim at 610-588-0282  
> Fax 610-588-0253 Or Email n2gkw@epix.net  
>

> Specifications:

>Power requirement:

> internal - 9 volt, around 50 milli-amps. Idle is about 9 milli-amps.

> and/or

> external - 12 volt, 100 milli-amps max. - optional.

>Size: 3.250 x 4.375 x 1.600 inches (excluding knobs).

>Weight: 8 ounces.

>Sending Speed: 5 to 40 WPM +/- 10%.

>

>Optional Components:

>1 Phono Plug..... @ 1.00

>1 1/4 inch Stereo Phone plug..... @ 1.75

>1 AC Adapter ..... @ 4.95

>Prices may change without notice, and do not include shipping.

>

>FoxGap CW, PO Box 246, Bangor, PA 18013 <n2gkw@epix.net>

>

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997

From: n0acs@juno.com (John R. Morris)

Subject: [19679] PHOENIX CRYSTAL GROUP BUY.

Message-ID: <19970514.223702.6847.7.N0ACS@juno.com>

Shipping status. In order to let everyone know what the order status is I am currently shipping orders as fast as I can get them made and shipped.

To really put the process in prespective.....I could say I had one order, and that doesn't sound like much , but consider that I have an order for all three sets of crystals (19 crystals)....well now that's going to take some time to process, make and ship.  
Well I've got to say I really appreciate all the support and orders which everyone sent in.....but I never in my wildest dreams thought so many of you would order all 3 sets. Maybe some of you didn't know how long I was going to keep doing this.....so you really decided to stock up, or maybe it was just that it was a real good bargain, anyway it looks like I will be another 30 to 40 days before I have all the orders completed.  
RIGHT NOW I AM SHIPPING ORDERS THAT HAVE BEEN ENTERED FOR ABOUT 30 DAYS.....So I ask for your understanding and patience.....I'm working as fast as I can, including next Saturday and Sunday.

72

John/PHOENIX CRYSTALS

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: torell@sicom.com (Kent Torell)  
Subject: [19694] prop news  
Message-ID: <v02130500afa0d6100db4@[192.91.202.41]>

One of the ionospheric propagation outfits has put together some software that polls the ionospheric sounder stations, and gives you real time measured propagation conditions. The arrival last night of the coronal mass ejection gave them an opportunity to showcase some results...(standard disclaimer...)

Kent

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\*ABOVE\* NORMAL H.F. RADIO PROPAGATION REPORT

Issued 15 May 1997

Valid: UTC day of 14 May 1997

(A Special Report)

The following report is an ABOVE-NORMAL Radio Propagation Report for F2-layer maximum usable frequencies. It is based on a few selected stations measuring critical F2-layer frequency data, ionospheric M-factor data, and maximum usable frequency values observed during the last 30 days. It shows peak enhancements ABOVE normal 30-day values (NOT peak MUF values, but the times where the MUF values are above normal the most), and the observed MUF for that time-period (if available). It is valid for 3,000 kilometer (1,875 mile) path distances.

The data presented below is not fabricated from ionospheric models. They are TRUE MEASURED quantities determined from ionosondes and are therefore highly accurate. Notice the strong enhancements that occurred today, 14 May 1997 (normal hourly enhancements can range from 10 to 20 percent).

Several regions such as Texas, Alaska, Eastern Canada and California could have experienced unusually good propagation on HF bands up to the indicated MUF, at the times indicated.

Signal paths with midpoints near California may have experienced brief 10-meter openings at 22:00 UTC for distances up to 3,000 kilometers - a SUBSTANTIAL and unusual enhancement that could have been realized had communicators known of these conditions at 22:00 UTC.

This report was gathered from data and plots provided by the Solar Warning And Realtime Monitor (SWARM) Software, which can turn home computers into advanced ionospheric and space weather monitoring stations. Persons interested in this software should consult the URL:  
<http://solar.uleth.ca/solar/www/swarm.html>

| STATION             | UTC HOUR OF PEAK<br>DEVIATION FROM NORMAL | F2-LAYER MUF | NORMAL MUF | %     |
|---------------------|-------------------------------------------|--------------|------------|-------|
| -----               | -----                                     | -----        | -----      | ----- |
| Bermuda             | 22:00 UTC                                 | 23.8 MHz     | 19.8 MHz   | +20%  |
| Dyess AFB, Texas    | 03:00 UTC                                 | 23.3 MHz     | 15.1 MHz   | +54%  |
| Eielson AFB, Alaska | 09:00 UTC                                 | 14.0 MHz     | 9.7 MHz    | +44%  |
| Goose Bay, Canada   | 02:00 UTC                                 | 15.1 MHz     | 10.0 MHz   | +50%  |
| Leamonth, Australia | 15:00 UTC                                 | 11.9 MHz     | 9.9 MHz    | +20%  |
| Vandenberg, Calif.  | 22:00 UTC                                 | 28.7 MHz     | 19.3 MHz   | +49%  |
| Wallops Island, VA  | 03:00 UTC                                 | 17.1 MHz     | 12.2 MHz   | +40%  |
| Eglin AFB, Florida  | 14:00 UTC                                 | 16.5 MHz     | 21.8 MHz   | +30%  |
| Hobart, Australia   | 13:00 UTC                                 | 11.6 MHz     | 8.9 MHz    | +30%  |
| Camden, Australia   | 15:00 UTC                                 | 16.9 MHz     | 12.4 MHz   | +36%  |

The peak MUF measured during the UTC day for the stations selected above are indicated below. These are peak MUF values, not MUF values where the MUF deviated the most from normal levels. The MUF never exceeded the values indicated below.

| STATION             | UTC HOUR OF PEAK MUF | F2-LAYER MUF | NORMAL MUF |
|---------------------|----------------------|--------------|------------|
| -----               | -----                | -----        | -----      |
| Bermuda             | 22:00 UTC            | 23.8 MHz     | 19.8 MHz   |
| Dyess AFB, Texas    | 21:00 UTC            | 24.8 MHz     | 18.4 MHz   |
| Eielson AFB, Alaska | 00:00 UTC            | 16.0 MHz     | 14.3 MHz   |
| Goose Bay, Canada   | 22:00 UTC            | 19.5 MHz     | 15.6 MHz   |
| Leamonth, Australia | 05:00 UTC            | 24.0 MHz     | 22.1 MHz   |

|                    |           |          |          |
|--------------------|-----------|----------|----------|
| Vandenberg, Calif. | 22:00 UTC | 28.7 MHz | 19.3 MHz |
| Wallops Island, VA | 23:00 UTC | 21.9 MHz | 17.5 MHz |
| Eglin AFB, Florida | 23:00 UTC | 25.8 MHz | 20.3 MHz |
| Hobart, Australia  | 05:00 UTC | 21.5 MHz | 20.9 MHz |
| Camden, Australia  | 02:00 UTC | 21.3 MHz | 21.3 MHz |

★★ End of Report ★★

Kent Torell      torell@sicom.com      602-607-4852  
 SICOM      7585 E. Redfield, #202      Scottsdale, AZ      85260

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
 From: AlK0FRP@aol.com  
 Subject: [19705] Ranger II Fans  
 Message-ID: <970515183625\_-1700414986@emout06.mail.aol.com>

Gang

Thaks for the variety of prices for the Ranger. Given Prices from \$75 to \$350.

the owner is just closing on a new house so he will get it ready for sale Soon.

After cleaning it up I venture to say it is a 9 on a scale of 10 in cosmetics, so a nice transmitter for who ever.

Thanks to all  
 I'll be in touch  
 Al K0FRP

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
 From: wa5whn@juno.com (Jay D Miller)  
 Subject: [19695] Roll up 300 ohm foam camping antennas (light weight) dual band  
 Message-ID: <19970515.095151.4455.8.wa5whn@juno.com>

Look Ma, no tuners.

Not drawn to scale, but note that side labeled "a" & "d" are the long dimensions & "b" & "c" are the shorter dimensions, and they are inverted

(on purpose).

```
-----  
 \a      /b  
  300 ohm foam (twin lead)  
    -----/c      d \-----
```

Please forgive my drawings, and I do apologize to those who had requested this information. The idea for this antenna goes back many years ago to the ARRL Antenna handbook. I had originally cut this antenna for 40 & 20 meters. 600 ohm open space feeders work fine too. I had wanted a light weight, compact (roll it up in a tight roll) HF antenna to stick in the back pack, so that I could leave the antenna tuner at home. You can cut the antenna for 30 & 17 meters too. Standard half wave ( $468/f$  (MHz)) dipole formula works, but You will find that it is a bit long.

First measure out (get ready to prune it too) the longest dimension (lowest frequency) ( Hint: Don't break it in the middle, in fact, measure out a full wavelength for the lowest frequency).

Cut the topside of label "a" for the longest dimension & the bottom side, labeled "d" for the other half of the dipole (longest dimension), let's say for 30 meters. You will cut sides labeled "c" & "b" for the shortest dimension (17 meters). Remember to just snip the wire, not cut out a section. When You trim the antenna, again, just snip the wire, but don't cut it out. You will not be throwing anything away. The plastic foam will act as an insulator. Saves weight, by not using the egg ceramic or plastic insulators.

Wire points "a" & "c" together, then wire points "b" & "d" together. I had drilled a hole in the middle of the plastic, in the center of the antenna & threaded a nylon piece (1 foot long) of string through it, with very large knots (again light weight), then tied a loop at the other end. The string loops are where I hoist the antenna up into the trees. You can use (for those who like to fish) 3 lb. test line with weight snaps, which can be found at any sporting goods store. Except thread the fish line through a smaller hole & tie a loop. Then use the snap at the other end, to attach to the line that will take the antenna up into the 100+ feet Ponderosa Pines (oops, I am getting ahead of myself).

Very carefully, wire points "a" - "c" to one side of the RG-174 coax (threaded or looped once through the center hole in the plastic, that You had drilled), and "b" & "d" to the other side of the coax. Check for shorts in the RG-174 (Yes, I do speak from experience).

The reason that diagram is inverted above is that I had used the plastic, on the foam 300 twin lead, as antenna supports. Saves weight on insulators. Snip/cut the wire, but don't cut the wire out of the plastic. You will use the plastic foam as a support insulator. The same idea works for the center feed too. I had soldered RG-174 in as the feed line. By the time that I was done, the antenna was ~ 5% shorter than the half-wave dipole equation. It may not be pretty, but it works. I had placed some RTV on the exposed soldered connections, to keep the water out, then taped it, with electrical tape.

Now, to test it. I had taken my antenna camping. Used my trusty sling shot to place the antenna in a 100+ feet Ponderosa Pines. (Hint: The RG-174 is not cheap, but I do like my comforts, it is tightly rolled in a 100 feet piece). You can use RG-58, but you are adding weight to the pack that You are carrying.

So, how did it work ? Shall I tell them ? SWR indicates less than 1.5:1 on both bands (Thanks to my trusty Autek RF Analyst, tested at home.) Actually, sitting on top of 9,000+ feet Mountains, if I had heard it, I could usually work them. I had taken the Wilderness Sierra (set at 2 watts) with me & 2 band modules (Nice Job Wayne) & the next time out the GM-30 & 17 had come along (which I had just finished) (Thanks Dave). There is nothing like sitting on top of a rock, at 12,000+ feet, above sea level, and playing with small radios. The 60's song "I can see for miles and miles" comes to mind.

If You have any questions, send me email to this address. This group is obviously more creatative than I, so if You have a better light weight solution, please let me know.

Batteries are still a problem, but hey, tomorrow, someone will invent a small compact, .5 lbs. 10 VA thermonuclear reactor/generator. Right ? ;- ) 10 VA of available energy, but the lead shield weighs 100lbs. :- (

This suggestion does not apply in the States of California or Massachuettis, but hey, first day over 100 deg. F, they will cry for more power, even if it is nuclear. :- ) Shut down Palo Verde & Seabrook in July and see what happens, but I digress.

We should have a high peak weekend, similier to the old Colorado 14K Club. Peak to Peak takes on a whole different meaning here. ;- ) The States of Colorado, Alaska & Northern California, plus the NW provinces of Canada will clearly have the advantage in that type of contest. Any takers ? Here's looking down at You Kid... ;- )

72...Jay, WA5WHN      DM65qd



From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: QLF%mini@magic.itg.ti.com  
Subject: [19691] RULES OF ENGINEERING  
Message-ID: <9705151512.AA07491@itg.ti.com>

From: Brad Bradfield QLF

Subj: RULES OF ENGINEERING

K06TS wrote:

> Rules of Engineering:

> 1. Is it plugged in?

> 2. Is it turned on?

> 3. Is it plugged in RIGHT?

> 4. Reseat the parts.

> These four rules have solved 90% or so of the problems I've run across. The  
> first two require virtually zero technical knowledge. The fourth requires  
> very little expertise.

> 72,

> John

> @~~~~~

> @ John Elder, K06TS - King Of 6 Tiny States, ex: KD6HSK, N5FFH, WB6UWL,  
WN6UWL

> @~~~~~

Yeah, but you'd be surprised at how many people will take personal offense when you ask these questions. I work for a large defense contractor as a test engineer, and build and maintain many large custom factory test sets. Many years ago I had a large RF test set at a remote site about 40 miles away from where my office actually was. One morning the senior technician working at the site called me to indicate that he was getting no RF out on one microwave

band after replacing the travelling wave tube amplifier. Because of the distance, I always tried to do what troubleshooting I could over the phone, and, in fact, often was able to resolve problems without ever driving to the site. I started by asking the obvious questions like "Are the filaments on?" and "Is the high voltage on?" after which he lit into me yelling about "Well how dumb do you think I am?" and "Give me credit for having some smarts!", to which I quietly hung up and politely went and told his boss that I didn't have to take that kind of abuse, and when he wanted to calm down and call me back, I'd try and help. I never heard from him again, and several days later found out that he had swapped the input and output cables on the rear panel of the TWTA. As far as I'm concerned, there ain't no such thing as a dumb question, and the questions that I asked him were all things that I'd done myself at one time or another.

Oh, well.

72's es 73's,

Brad, WB0CGH

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Craig LaBarge <LaBarge\_C@compuserve.com>  
Subject: [19662] SST Ordering Info  
Message-ID: <199705142136\_MC2-169B-381B@compuserve.com>

I guess my copy of QRPP is either taking the long way here or it's been abducted by aliens or something. Anyway, could someone send me the ordering info for the field test version of the SST?

Thanks & 73, =

Craig WB3GCK

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: kb0rol@juno.com (Bradley L Mugleston)  
Subject: [19678] Stacking Antennas - question  
Message-ID: <19970514.214155.9743.6.kb0rol@juno.com>

Gang,

I was able to borrow two antennas one a Cushcraft 2M 11 element Yagi (A147-1, I think) and a Mosley Classic 33 (10M, 15M and 20M). I also got a small roof mount tripod and I have an antenna turner.

My question is, can I stack them on the same mast? They probably won't be used at the same time. How far apart should they be (vertically)? The 2M will be vertically polarized.

Thanks

de KBØROL, Brad

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: timcook@erinet.com  
Subject: [19668] WTB: Drake SW-8  
Message-ID: <337A7ADB.6AD0@erinet.com>

Hi,  
I know this is not a qrp rig, but the reason I put it on here was in the hope someone had an SW-8 and would be looking to do some trading on a nice Ten Tec Argonaut 509 with the matching 208 cw filter and 206 calibrator. I have plenty of qrp rigs, and would like to have another SW-8. I sold mine and was sorry after. Please email direct if you have one to sell/trade.

Thanks

tim

NZ8J

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>  
Subject: [19669] ZL1HY QRP SSB 2-X ON 18.123 @ 4.7w p-p.  
Message-ID: <19970515031128.AAA1918@LOCALNAME>

JUST WORKED MIKE, ZL1HY 2-X QRP, HIM 4/2- ME 5/3, AND DAVID, ZL1AXQ, WHO WAS QRO. STERBA REALLY KNEW WHAT HE WAS DOING! I'm nearly finished with the current painting task so will catch up w/hamming soon. =S=

p.s.

Mike will be on later during the week around 0200 - 0300z.

"Seab" Lyon - AA1MY

Bethel, CT; FN-31-HJ

ARCI#9253; QRP-L #574

NEQRP#511; ARRL; QCWA

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Raventhorne <jelder@ix.netcom.com>  
Subject: [19671] Re: A VA Centennial  
Message-ID: <2.2.16.19970514201941.3d479db6@popd.ix.netcom.com>

At 03:00 PM 5/14/1997 -0400, Ralph L. Irons wrote:

>Now maybe I have enough incentive to get that 80m antenna up off the  
>roof and into the air! Hey -- just in time for the summertime roar  
>of QRN!

Mighty good to know you're a satisfied customer--would have been pretty  
demoralizing to start a group buy and then read about what a piece of junk  
the rig is. Glad that's not the case.

72,

John

@~~~~~

@ John Elder, K06TS - King Of 6 Tiny States, ex: KD6HSK, N5FFH, WB6UWL, WN6UWL

@~~~~~

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Raventhorne <jelder@ix.netcom.com>  
Subject: [19672] Re: BEST WAY  
Message-ID: <2.2.16.19970514202550.3d476ccc@popd.ix.netcom.com>

At 11:09 AM 5/12/1997 -0500, Duncan David Mac Donald wrote:

>Can any one help with suggestions on how to find the address of AD4PEE

This wasn't the guy relieving himself on the CB radio in the website, was it?!?

@~~~

@ John Elder, K06TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245

@ So many fools, so few comets . . .

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Carol N. Wright" <cnw@HiWAAY.net>

Subject: [19689] Re: BEST WAY

Message-ID: <Pine.OSF.3.94.970515085951.12205D-100000@fly.HiWAAAY.net>

On Mon, 12 May 1997, Duncan David Mac Donald wrote:

> Good Evening to All.

>

> VE6KNB a new ham made contact with AD4PEE and wishes to send him a QSL card.

> Can any one help with suggestions on how to find the address of AD4PEE

> 72 s Duncan

>

Hey Duncan,

Well I don't think that AD4PEE is a legal call. I think all AD4 calls or 2 by calls are either 2 by 2 or 2 by 1. Maybe the call was AD4PE or AD4PI and you mistakened the i for two e's? What is his first name? Matt, AE4JM      cnw@HiWAAAY.net

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997

From: borealis@juno.com (Philip G. Collier)

Subject: [19661] Re: CB Website

Message-ID: <19970514.212821.2511.1.borealis@juno.com>

>Here's some food for thought: What if that cute little cave man

>was urinating on a Morse code key? Would it still be funny and

>good for a chuckle?

Sure it would, if the key was connected to a curiously strong transmitter, with a bad ground and high SWR...

Hey, there will always be a few hardheads who don't understand what ham radio is about. Instead of doing something productive, they'll put down CB, complain about learning code (or not learning it), moan about QRM, ad nauseum. Life is too short to follow them; one is better off - we're all better off getting on with those things listed in the basis and purpose of this service.

-----

73,

Philip Collier; KG2DH

QRP-L # 1020, ARRL, AMSAT, Order of the Wouff Hong.

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997

From: Jess Gypin <jgypin@bi.com>

Subject: [19697] Re: CB Website  
Message-ID: <337B4430.6AB1@bi.com>

ptaber@microtest.com wrote:

>  
> >Could you explain to me how this isn't a justification of bigotry? Just because  
> >something is the case, does not mean it should be the case.  
>  
> It's not a justification of anything. It's just an observation. It applies in  
> all cases I know -- even the one where someone feels he's the Good Guy fighting  
> the Bad Guy Bigots ;-)  
>  
> I didn't make the world or program people's societal instincts.  
>  
> >>>==>PStJTT  
Is this going to be another one of those never ending threads? Or are we  
going to continue group list therapy ;-0

Jess N0TFI  
jessqrp@concentric.net

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: n4js@amsat.org  
Subject: [19701] Re: CB Website  
Message-ID: <XFMail.970515150034.n4js@amsat.org>

1990's sensitivity Rule #1:

If you like something, or some group, I DON'T like, you are a LIBERAL!  
If you DON't like something, or someone I like, you are a BIGOT.

Sort of like the old,  
"I am steady in my convictions,  
You are unreasonable  
He(she) is a stubborn, pig-headed a\_\_\_\_\_"

Sent at 15:00:34 on 15-May-97

John L. Sielke n4js@amsat.org n4js@pobox.com  
| \ | | | | \_ | | / \_ | n4js@n4js.ampr.org NJ Grid:FM29LN  
| . ' | | \_ \_ | | | | \ \_ \_ \ http://www.qsl.net/n4js  
| \_ | \ \_ | | \_ | \ \_ \_ / | \_ \_ / NJ-QRP #57 QRP-L #884 QRP-ARCI #9328  
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243  
WIMPS Qs=017 30m=15 17m=2 12m=0 States=05/02/00 Countries=09/00/00

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>  
Subject: [19702] Re: CB Website  
Message-ID: <Roam.SIMCSD.2.0.4.863722856.23378.myers@bigboy>

Jess wrote:

> Is this going to be another one of those never ending threads? Or are we  
> going to continue group list therapy ;-0

Please, I hope this thread can end. I made a comment and I stand by it; I just don't see the positive value to amateur radio in picking on CB. It isn't some knee-jerk "political correctness" response, I just think we'd be better off as a service if we spent less time picking on others (those CB/digital/no-code/QRO ops, for example) and more time doing what we do best - teaching, learning, helping.

If y'all want to keep sending me notes imploring me to lighten up, you'll need to include an explanation about what I need to lighten up about, I'm just not inclined to abandon my belief in \*positive\* growth in favor of mildly funny rude jokes. Please, please, spare the QRP-L mailing list, however - my personal e-mail address is Dana@Source.Net.

thanks!  
Dana K6JQ

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Raventhorne <jelder@ix.netcom.com>  
Subject: [19703] Re: CB Website  
Message-ID: <2.2.16.19970515132956.3f1f82f8@popd.ix.netcom.com>

At 11:13 AM 5/15/1997 -0600, Jess Gypin wrote:

>ptaber@microtest.com wrote:

>>

>> >Could you explain to me how this isn't a justification of bigotry? Just because

>> >something is the case, does not mean it should be the case.

>>

>> It's not a justification of anything. It's just an observation. It applies in  
>> all cases I know -- even the one where someone feels he's the Good Guy  
fighting

>> the Bad Guy Bigots ;-)

>>

>> I didn't make the world or program people's societal instincts.

>>

>> >>>==>PStJTT

>Is this going to be another one of those never ending threads? Or are we  
>going to continue group list therapy ;-0

If we are, I'm Marriage, Family & Child Counselling intern. I need to get  
hours of experience for licensure. Can I be the therapist? Everybody pitch  
in \$25/hour, made payable to Richstone Family Center . . .

;-)

Oh, yeah, I'll have to share this experience with my supervisor and get her  
input, too--y'all will get quite a deal . . .

72,

John

@~~~~~

@ John Elder, K06TS - King Of 6 Tiny States, ex: KD6HSK, N5FFH, WB6UWL, WN6UWL

@~~~~~

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997

From: Randy Hargenrader <randyh@harksystems.com>

Subject: [19693] Re: Corsair II problem over

Message-ID: <337B2B51.89D@harksystems.com>

I have a Paragon that had quirky things pop up on occasions  
that turn out to be poor connections on the crimp style molex  
connectors. Seems that just taking a small screwdriver and  
carefully "poking" the wires into the contact points clears them  
up. Just my TenTec tip of the day...

--

73, (Sir)Randy WJ4P

Knightlites QRP-L #296 ARCI #9152 1996 40-9er High Scorer

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997

From: "Carol N. Wright" <cnw@HiWAAY.net>

Subject: [19667] Re: Dan's

Message-ID: <Pine.OSF.3.94.970514215508.21380C-1000000@fly.HiWAAY.net>

Hey Jeff and Gang,

I'm not sure about 10K 10 turn pots. I know that he has some 10 turn 100K  
pots. I'm getting one for my GM-20. Matt, AE4JM

cnw@HiWAAY.net





| | | | \ '.  
c\_\_; c\_\_; '-..'>.\_

Email: ctrask@primenet.com

Graphics by Loek Frederiks

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: randy\_ott@juno.com (Charles R. Ott)  
Subject: [19680] Re: FERRITE SLUGS  
Message-ID: <19970515.011216.4942.1.randy\_ott@juno.com>

On Wed, 14 May 1997 19:41:13 -0700 (PDT) js@deepcove.com (Steve McDonald) writes:  
>Although not directly QRP related, I am hoping that some of you  
>diehard  
>homebrewers can help.  
>What effect would substituting a brass slug (ie. small brass screw)  
>for a  
>ferrite slug have on a vhf tuned circuit (approx 100 mHz). Would  
>inserting  
>the brass tend to raise the frequency as opposed to lowering it? Would  
>the  
>overall 'Q' be maintained or would it be degraded and if so to what  
>extent??  
>  
>Steve / VE7SL

Steve,

Using a non-ferrous metal (brass or aluminum) in place of ferrite will reduce the inductance. This, of course would increase the frequency of a tuned circuit.

My company manufactures R.F. modems that are used on cable TV systems. Some of the models we make have tuned circuits that might need to be tuned over a wide range for a given customer order. Instead of having to build them with a lot of different coils, in some cases we install either a ferrite or brass slug for a given tuning range.

By definition, the 'Q' will be lower since the inductance is less for a given wire resistance. The formula is  $Q = X/R$  and since X is lower with the reduced inductance and R is constant therefore Q is less.

This does not take into account any core losses but that would be relatively small.

Randy...

-----  
Charles R. (Randy) Ott  
K5HJ - QRP-L #1040  
-----

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: ptaber@microtest.com  
Subject: [19685] Re:FS: Cushcraft R7 vertical  
Message-ID: <9705158637.AA863704193@microtest.com>

>For Sale: Cushcraft R7 multi-band vertical, covers 40 thru  
>10 meters. Antenna has been used for a total of 5 weeks on  
>3 trips to Belize (over 6,000 QSO's have been made with 100  
>countries using this antenna on CW and RTTY).

6,000 QSO's from Belize and it's only achieved DXCC? I'd be heartbroken....

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: AE0Q V31RY <v31ry@ix.netcom.com>  
Subject: [19687] Re:FS: Cushcraft R7 vertical  
Message-ID: <2.2.16.19970515135141.0b1f0d32@popd.ix.netcom.com>

At 09:29 15-05-97 -0700, ptaber (callsign??) wrote:

>  
>>3 trips to Belize (over 6,000 QSO's have been made with 100  
>>countries using this antenna on CW and RTTY).  
>  
>6,000 QSO's from Belize and it's only achieved DXCC? I'd be heartbroken....  
>

Ahhh, but those were CONTEST and DXpedition qso's, and being in zone 7 was an uncommon multiplier in the CQWW contests. I've handed out a multiplier for Belize and/or zone 7 at the rate of 3 or 4 a minute for hours at a stretch on CW. I didn't go to Belize to work countries for \_MY\_ DXCC you know, I went to hand out Belize for everyone else!! So that means a lot of

USA contacts on RTTY, and mostly Japan and Europe on CW. Working DXCC from there was just serendipity.

Try a DXpedition some time, your operating priorities are not the same as at home!

73 -- Glenn

-----  
"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK  
v31ry@ix.netcom.com --SOWP 5558-M, QCWA LM, ARRL LM, NCVA--  
<http://www.qsl.net/ae0q>

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: tahrens1@juno.com (Tim H. Ahrens)  
Subject: [19692] Re: FS: Cushcraft R7 vertical  
Message-ID: <19970514.102013.9087.1.tahrens1@juno.com>

>>  
>>>3 trips to Belize (over 6,000 QSO's have been made with 100  
>>>countries using this antenna on CW and RTTY).

Sounds like it's useful life is almost over... everybody knows that antennas can only support a certain number of qsos.. or perhaps it is the amount of RF that flows through it. (I'm sure someone out there can help me out on this).

I remember when I was flying model airplanes... every plane has a date inscribed in it somewhere (although it is invisible to the mortal flyer). That's the date that it will crash!

cul

Tim W5FN

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Alan Slusher" <slusher@sunbeach.net>  
Subject: [19706] Re: FS: Cushcraft R7 vertical (Long)  
Message-ID: <22465040608388@sunbeach.net>

Tim:

You raise an interesting point. Unless the antenna "knows" the number of QSOs it has supported and can support, it can only react to the quantum of RF flowing through it. In the latter case, it is possible for an inexperienced operator, at the bottom of the sunspot cycle, using a half-deaf receiver which also needs realignment (I am sure you can think of the appropriate combinations) to use up the useful life of an antenna without a single dx contact, or even (don't say it) any contact at all! Is there an odometer for antennae (or for any other piece of ham gear, for that matter)?

What would be the effect on the effective life of a circuit of using parts scavenged from different applications (how would you combine varying parts' lives? what mean would you use? do different parts carry different weights? should you dump your junk box)? What testing procedures are used by the manufacturers of (especially kilobuck) ham gear: if they test too long they use up your rig even before you get it; if they don't test enough.... Relatedly, can you trust discount parts suppliers? Should you turn your rig off between QSOs? Should you call CQ?

Does the direction of RF flow through your vertical make a difference? This is not a stupid question: if you feed your ground-mounted vertical from the bottom the RF has to flow upwards; and all the propagation books show dx skip coming down from the sky.... (You can, of course, do a transposition for horizontal antennae, easily done for center-fed ones.) What about the effect of received signals on your antenna's life span when you are asleep or at the salt mines, and the rig is turned off: should you ground your vertical at the top and the bottom when not in use (and at the middle as well for good measure) or should you ground the whole thing to avoid currents in the ungrounded sections?

This could also take the whole issue of "keeping the smoke in" to new levels of (anti)pollution. What if the smoke can be used up inside a part as it performs its function, so that, at the end of its life, it is completely dead and no smoke can be released (and no work done) regardless of the power that is misapplied to it? Would antennae form a special category of part (can you conceive of your rig letting the smoke out of an R7)? (Did you say you run one of these megakilowatt truck-mounted rigs?) Would it be necessary to continue to increase rig output to get a readable signal out as the fixed quantum of smoke in the antenna gets used up? Would we need to push the ARRL to lobby the FCC to change the rules and put the power limits on effective radiated power from the antenna rather than input power to the finals or output power from the final amplifier?

Clearly this whole issue is a massive plug for QRP operation: make the contacts with as little RF as possible and preserve the life of your rig and antennae; make your own parts so you are sure that they are new (this will force you into rig designing as you try to keep the parts count down, and back to basics as well: can you make an NE602 equivalent?); use cw

(parts count and low power QSO effectiveness. .

One last matter: is the rate of parts deterioration directly frequency dependent, and, if so, is the relationship linear (over what frequency range)? Does the brain work on ac or dc?

Reflections of a Belizean

Alan V31FA / 8P9BM

```
-----
> From: Tim H. Ahrens <tahrens1@juno.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Re: FS: Cushcraft R7 vertical
> Date: Thursday, May 15, 1997 12:22 PM
>
> >>
> >>>3 trips to Belize (over 6,000 QSO's have been made with 100
> >>>countries using this antenna on CW and RTTY).
>
> Sounds like it's useful life is almost over... everybody
> knows that antennas can only support a certain number of
> qsos.. or perhaps it is the amount of RF that flows through
> it. (I'm sure someone out there can help me out on this).
>
> I remember when I was flying model airplanes... every plane
> has a date inscribed in it somewhere (although it is invisible
> to the mortal flyer). That's the date that it will crash!
>
> cul
>
> Tim W5FN
```

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>  
Subject: [19656] Re: FS: W9GR DSP \$50 obo (shipped)  
Message-ID: <Pine.3.89.9705141939.J20588-0100000@w3eax.umd.edu>

I'd be interested in this and that 6m module for the 736 you've got!

\* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 \*  
\*\*\* 6m 75 grids worked on 8 watts \*\*\* HF 140 cfmd \* QRP-L #147 \*\*\*  
\*\* QRP ARCI #9054 \*\* DXCC/WAS/WAC \*\*\* 100% dipole powered HF/6m \*\*  
\* 301-549-1022 h / 301-982-1015 w \*\*\* DAYTON PHONE 937-434-8750 \*

On Wed, 14 May 1997, Brian K. Short wrote:

> >I have a W9GR DSP unit that was well built by an EE to meticulous  
> >standards. It works very well. I have 2 and don't really need this one  
> >anymore. These are great for QRP, you can really pull the weak ones out  
> >of the mud. In addition, it has enough audio to drive a speaker well.  
> >  
> >Asking \$75 including shipping CONUS  
>  
> I also have a W9GR DSP unit (built by me) and working well.  
> >From the QST article/kit with the CPU/PROM upgrade for all  
> modes and inside a nice metal cabinet. Low power consumption  
> with the CPU/PROM upgrade.  
>  
> Will accept \$50 (shipped) obo?  
>  
>  
> Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484  
> k7on@qsl.net >or< ke7gh@primenet.com <http://www.qsl.net/k7on>  
>  
>

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Dave Maliniak" <dmaliniak@penton.com>  
Subject: [19683] Re: HW-9 repairs  
Message-ID: <85256498.004814A4.00@mail.penton.com>

----- Forwarded by Dave Maliniak/EEPN/Penton on 05/15/97  
09:10 AM -----

n4so @ junos.com  
05/14/97 08:52 PM

cc:  
Subject: Re: HW-9 repairs

from QST

HEATHKIT REPAIRS  
RTO Electronics  
5585 Hochberger  
Eau Claire, MI 49111  
616- 461 3057

October of 1996 page 172

Ken Brown, N4SO  
QTH nr Mobile, AL  
qrp-1 #622  
n4so@juno.com

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: laura halliday <ve7ldh@direct.ca>  
Subject: [19676] Re: IC's  
Message-ID: <337A8DB0.467C0DD2@direct.ca>

Norm Melick wrote:

>  
> I have been playing with a tunable bandpass filter using  
> 741's, 1458's and LM386's. A friend tells me that these  
> are "old and power hungry", and I should look at TL062's,  
> TL071's, TL081's, etc. He says that they cost the same,  
> use less power and perform way better than the 741's and  
> LM386.  
>  
> My questions are:  
>  
> Does anyone out there have any experience with these IC's?  
> Why don't I see these IC's used more in QRP?

The various op-amp ICs are sufficiently compatible that  
you can routinely substitute newer types for older. They  
design them that way.

I favour NE5532 dual op amps for most projects, and for  
many applications they run rings around a true blue 741.  
The single supply voltage is nice too. They're only dual  
op amps (NE5514 is the quad version, NE5534 is the single  
one), but the component density on ugly boards makes quad  
op amps awkward. For me, anyway. I suppose that's  
what SMD is for. :-)



People speak highly of the LMC662. I have a couple, but haven't gotten around to building anything with them yet. Ditto LT1055 and SSM2017. I even have a tube of SMD TL072s - it's amazing what high-tech companies throw out!

The LM386 is still a handy chip if you want to drive a speaker. You can get chips with lower current drain (anybody?) and more linear chips. I have a TDA1514A - designed for CD players and such - waiting in the wings. It also requires a dual-rail power supply, a handful of external components, and costs \*lots\* more than an LM386.

You'll find applications of many of these chips in recent references, like QRP Power.

--

Laura Halliday                    "C'est une femme mutine, assez elegante,  
ve7ldh@direct.ca    grave et legere, ayant le sens de  
Grid: CN89mg        de confort et de plaisir en tout."  
                             - C. Deneuve

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997  
From: Ed Pacyna <pacyna@auratek.com>  
Subject: [19688] Re: IC's  
Message-ID: <3.0.16.19970515095502.2f3f841a@galaxy.auratek.com>

At 08:16 PM 5/14/97 -0700, you wrote:

>I have been playing with a tunable bandpass filter using 741's, 1458's  
>and LM386's. A friend tells me that these are "old and power hungry",  
>and I should look at TL062's, TL071's, TL081's, etc. He says that they  
>cost the same, use less power and perform way better than the 741's and  
>LM386.

Norm

Your friend is right on the money.

I use them all the time now. They come in packages of up to 4 op amps (last digit tells how many, i.e. TL074 has 4 op amps).

One nice thing is that op amps tend to follow a standard pin out and if one used sockets, its very easy to upgrade.

QRP design / construction is not very high tech years behind of the industry.

73

Ed, W1AAZ

From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Watson R Gabriel Jr" <wgabriel@dpcmail.dukepower.com>  
Subject: [19659] Re: J-38?  
Message-ID: <9704148636.AA863670446@inccmrtr.dukepower.com>

I called Test Equipment Sales about a week or so after Steve's original posting and the fellow told me he was sold out. Took my name and phone number - sez he runs across others pretty often and would contact me. Have not heard anything so far.

Watson, WB4EXW

----- Forward Header -----  
Subject: Re: J-38?  
Author: we6w@qsl.net at DUKEPOWER  
From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: "Watson R Gabriel Jr" <wgabriel@dpcmail.dukepower.com>  
Subject: [19658] Re: Member Numbers  
Message-ID: <9704148636.AA863670440@inccmrtr.dukepower.com>

My last (No. 4, 1996) QRPp label only has "expires Sept 97" on it in addition to my name/address. No member number on mine.

I also have not received the new Spring, '97 issue as yet. Anyone else with this problem?

Watson/WB4EXW

----- Forward Header -----  
Subject: Re: Member Numbers  
Author: kory@avatar.com at DUKEPOWER  
From owner-qrp-1@Lehigh.EDU Thu May 15 18:04:54 1997  
From: n1pwu@juno.com (Robert K Berlyn)  
Subject: [19682] Re: Re; PC board layout  
Message-ID: <19970515.074229.9350.0.N1PWU@juno.com>

Hi Gang,

I have been Using Circad Version 3.7. Circad is downloadable free as a demo and is functional except I believe the file size is restricted. In any case the Ham version is \$ 300.00 bucks. The regular commercial version, which is IDENTICAL to the ham version is around a \$ 1000.00.

The only difference is the tech support. The expensive version comes from Holophase Inc. and The Hame version Tech support comes from Dover Research. Thats the guy that wrote the software. I have found the Tech support to be excellent. Better than my experience with Orcad

It is easy to use and does alot of the stuff Orcad 7.01 does, amd alot os stuff Orcad dosent do.

I like it. Its a dos program so if you dont have the lattest Pentium machine sitting on your desk top it dosent matter.

I think its worth looking into if your looking for schematic capture/layout software

My 2 cents

Bob

N1PWU

QRP-L # 161

NE-QRP # 226

East Greenwich, RI

[HTTP://www.businesson.com/HAMPARTS](http://www.businesson.com/HAMPARTS)

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [19699] Re: Roll up 300 ohm foam camping antennas (light weight) dual band HF Antenna

Message-ID: <337b3bd4.7049367@smtp.usit.net>

On Thu, 15 May 1997 11:51:31 EDT, wa5whn@juno.com (Jay D Miller) wrote:

>Look Ma, no tuners.

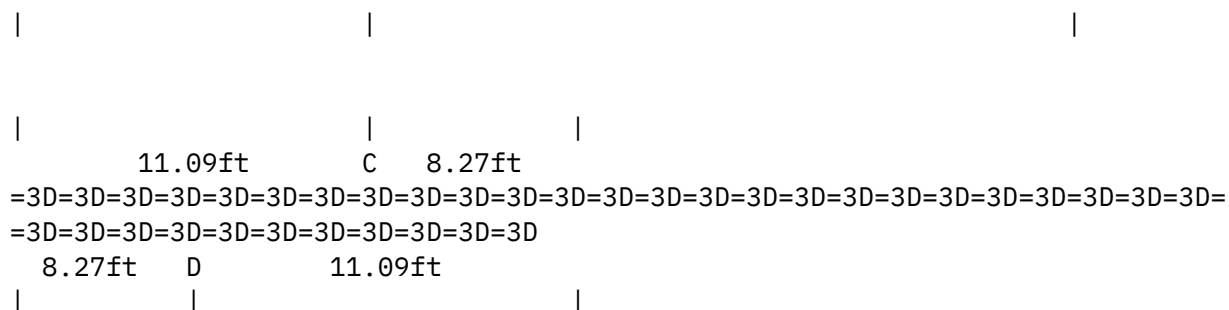
>

>

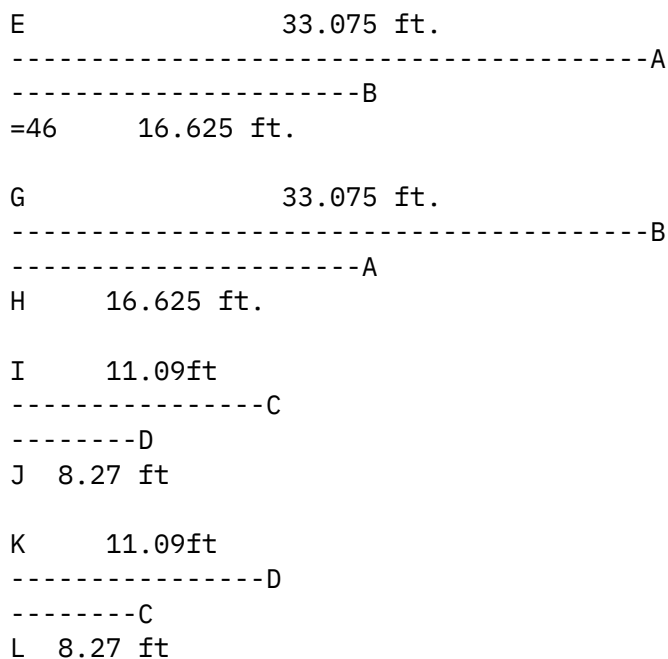
>Not drawn to scale, but note that side labeled "a" & "d" are the long  
>dimensions & "b" & "c" are the shorter dimensions, and they are inverted  
>(on purpose).

>





At points A, B, C, and D cut ONE of the twinlead wires (A is one side, B is the Opposite Side, similar for C and D). Cut the insulation between points A and B, and points C and D, to separate into a total of four sections, as follows:



Now, ends E/F and I/J form one feedpoint side of the four-band dipole, and G/H and K/L form the other feedpoint side. feed with coax or twinlead or whatever, if you use coax, might want to consider a choke balun. You can support the parallel dipoles with each other (attach the 15M to the 20M for mechanical support, and use end insulators on the ends of the 40m wire). Trim to resonance, beginning with the lowest band to the highest band, leave it a bit long (i.e., if you want to center at 7.075, cut to resonance at 7.0 or so), then go back and prune again until you hit the desired centers on each band. May take three times through from 40m to 10m to get the right resonance on each band.

I can't do it, because of the configuration, but I'd love to see how

an "X" dipole might reduce the interaction between them, still on one feedline, and different band arrangements together. For instance, I'd like to see if a 40/15m dipole combined with a 20/10m dipole put at 90 degrees to the 40/15m, still with a single feedline, might improve things. Would require four supports, though.

Same concepts apply to any two bands. By cutting the legs opposite one another, waste is avoided. By hanging multiples, it's conceivable to build an all-band single feedline dipole (although I'd suppose it would be a mother to prune to resonance!).

This is also the basics behind the log periodic antenna, except the log periodic has elements for each frequency range, continuous.

All things considered, and given the lack of trees at elevation, I think I'll see how the St. Louis Vertical works (MMA version).

But for home/permanent installations, the multiple dipole configuration is a winner for me!

72 es 73 de=20  
Marty, KM7W

-----  
Jackson, Tennessee e-mail: mdwatt@usit.net  
http://www.public.usit.net/mdwatt  
"The Curmudgeon's Corner"  
NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq  
~~~~~

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997
From: Randy Hargenrader <randyh@harksystems.com>
Subject: [19696] Re: RULES OF ENGINEERING
Message-ID: <337B319C.2BFB@harksystems.com>

Good input from both posts! I'd like to add my two cents...
My personal trouble shooting list includes something I read in a radioman manual from around WW2. (I'm not that old- just the book!) It described how to pound the top right-hand corner of the unit to get it to operate again if it ever stopped working in the field. There was some detail about making a fist... you get the idea. Anyway, I have found that many things just needed "slapped". So I have always employed the "Fine Art of Equipment Slapping". All the "great" maintenance techs I have ever met used some form of this "art" as part of their routines. This can be abused however,

I have seen many a two way radio get the "calibrated boot" from the user in order to keep from having to take it to the shop.

One more example. During my tenure with Uncle Sams Navy I was responsible for a missile guidance radar system that had a quite large DSP unit for processing the returns. It consisted of about a hundred 4"x4" PC cards that plugged into racks. The top tech from the contractor always started a trouble shooting session by running the handle of a screwdriver down the rows of cards to see if that affected a "fix". Often enough to make you a believer, it started working! Of course we imitated his actions anytime we had a problem with that unit. He always would do it himself anyway when he arrived which makes him smart enough not to "assume" we covered all the "basics". I can't tell you how quickly I learned to ask (and constantly apologising while I ask) a bunch of "stupid questions" first. NEVER assume the other guy did ALL the right things. You'll be there forever!!

--

73, (Sir)Randy WJ4P

Knightlites QRP-L #296 ARCI #9152 1996 40-9er High Scorer

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997

From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>

Subject: [19673] Re: ZL1HY QRP SSB 2-X ON 18.123 @ 4.7w p-p.

Message-ID: <19970515032910.AAA13068@LOCALNAME>

At 03:22 AM 5/15/97 +0000, you wrote:

>Need an exact frequency.

THEY WERE BOTH ON 18.123, ARE FRIENDS AND COLLABORATE, APPARENTLY.

GOOD LUCK. =S=

>

"Seab" Lyon - AA1MY

Bethel, CT; FN-31-HJ

ARCI#9253; QRP-L #574

NEQRP#511; ARRL; QCWA

From owner-qrp-l@Lehigh.EDU Thu May 15 18:04:54 1997

From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Subject: [19674] Re: [TenTec] Corsair II problem

Message-ID: <4190.863668252@safety.ics.uci.edu>

Hello All:

I just got a Corsair II via UPS, the box has a small gouge, but the rig didn't get gouged, though it doesn't work.

Anyone ever have experience with this problem:

1. Receiver very weak, no S meter readings even though weak sounding signals present (other receiver over S9 all over the place)
2. PBT has NO EFFECT on any signals I can receive
3. I can hear both sidebands even in SSB mode, can go up and down on a carrier from above to below.

I suspect a filter got shaken and one of the crystals is not working much anymore. Does this make sense? A bad filter attenuating the signals and allowing both sidebands to come through?

Now, does the lack of any PBT activity tell me which filter to suspect? Is it likely the 6.3 IF filter or the 9 IF filter? I have a spare 9 sitting in a box, and may swap it out (though it is soldered in! Didn't expect that.)

Anyone here have any tips to claim the damages against UPS? I trust the guy who shipped to me, and he had run it and it worked fine before he shipped it to me (packed with solid styrofoam frame and odd styrofoam and paper packing.)

Thanks for any help you might give me. I read the digest, so it will take me some time to get replies, please accept my thanks in advance :-)

Clark
WA3JPG